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L1	1814	703/2.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/06/12 13:27
L2	106	magnetocardiogra\$5 and @ad<"19990901"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/06/12 13:35
L3	5	cardiomagnet\$5 and @ad<"19990901"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/06/12 13:36
L4	61	((magnetic adj source) same imag\$3) and @ad<"19990901"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/06/12 13:39
L5	0	(L2 or L3 or L4) and tikhonov	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/06/12 13:39
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L7	13	(L2 or L3 or L4) and second adj order	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/06/12 13:41
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KA Kouznetsov, J Borgmann, J Clarke - Applied Physics Letters, 1999 - link.aip.org  
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**Measurement techniques for magnetocardiography using a second order gradiometer.**

SC Ho, FP Ho, MM Chao, JH Wilkin, JW Miller - Biomed Sci Instrum, 1986 - ncbi.nlm.nih.gov  
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**The development of a high-Tc magnetocardiography system for unshielded environment**

B David, O Dossel, V Doermann, R Eckart, W Hoppe, ... - Applied Superconductivity, IEEE Transactions on, 1997 - ieeexplore.ieee.org  
... Typical signal amplitudes in magnetocardiography (MCG) are in the range of ... second order gradiometers [ 131 show that the environmental noise and signal fields ...  
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**A second-order planar gradiometer composed of concentric superconductive loops - group of 2 »**

S Kuriki, Y Isobe, Y Mizutani - Journal of Applied Physics, 1987 - link.aip.org  
>/> A second-order planar gradiometer composed of concentric superconductive loops. ... Biomagnetism (including magnetocardiography). ...  
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**Magnetocardiography and exercise testing: data acquisition and data processing**

K Brockmeier, S Comani, SN Erne, C De Gratta, S Di ... - Computers in Cardiology 1991. Proceedings., 1991 - ieeexplore.ieee.org  
... 1 Introduction Magnetocardiography is a relatively new approach for ... environment with the following acquisition parameters: second order gradiometer (baseline 7 ...  
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**Compensation techniques for high-temperature superconducting quantum interference device ... - group of 2 »**

J Borgmann, P David, HJ Krause, R Otto, AI ... - Review of Scientific Instruments, 1997 - link.aip.org  
... For testing, we used first- and second-order axial electronic gradiometer setups with rf SQUID magnetometers operating at 77 K and base lines between 7 and 8 cm ...  
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**Localization of biological sources with arrays of superconducting gradiometers - group of 3 »**

P Carelli, R Leoni - Journal of Applied Physics, 1986 - link.aip.org  
... The comparisons were made between this kind of array and one made of traditional second-order gradiometers. ... Biomagnetism (including magnetocardiography). ...  
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**The PTB 83-SQUID system for biomagnetic applications in a clinic - group of 3 »**

D Drung - Applied Superconductivity, IEEE Transactions on, 1995 - ieeexplore.ieee.org  
... in order to realize electronic first- or second-order gradiometer configurations ... at our institution, initially focussed on magnetocardiography and subsequently ...  
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**A realistic torso model for magnetocardiography - group of 2 »**

A van Oosterom, GJ Huiskamp - Int. J. Card. Imag, 1991 - Springer

... A realistic torso model for **magnetocardiography** ... In this study the data considered represent the output of a **second order** gradiometer positioned orthogonally ...  
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**Baseline distance optimization for SQUID gradiometers - group of 4 »**

A Garachtchenko, A Matlashov, RH Kraus Jr, R ... - Applied Superconductivity, IEEE Transactions on, 1999 - ieeexplore.ieee.org  
... function of primary source depth for first and **second order** gradiometers, respectively ...  
For example, in the study of fetal **magnetocardiography** (fMCG), one would ...  
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P Carelli, R Leoni - Journal of Applied Physics, 1986 - link.aip.org  
... array and one made of traditional **second-order** gradiometers ... comparisons were made  
solving the **inverse** problem with ... Biomagnetism (including **magnetocardiography**). ...  
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[PS] Magnetic localization of reentrant activation in isolated rabbit atrium

E Costa Monteiro, E Andrade Lima, C Hall Barbosa, ... - Recent Advances in Biomagnetism, 1999 - ams.sunysb.edu  
... coupled to a symmetric **second order** gradiometer, with ... An **inverse** solution method  
has been previously ... of the volume conductor in **magnetocardiography**, Il Nuovo ...  
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A realistic torso model for **magnetocardiography** - group of 2 »

A van Oosterom, GJ Huiskamp - Int. J. Card. Imag, 1991 - Springer  
... A realistic torso model for **magnetocardiography** ... A simple **inverse** procedure, based  
on correlation techniques, is ... the output of a **second order** gradiometer posi ...  
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The effect of measurement conditions on MCG **inverse** solutions - group of 2 »

GA Tan, F Brauer, G Stroink, CJ Purcell - Biomedical Engineering, IEEE Transactions on, 1992 - ieeexplore.ieee.org  
... field were calculated as if measured by **second order** gradiometers, Gaussian noise  
was added, and Monte Carlo tests performed for **inverse** solutions using a ...  
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Detection of Reentry Currents in Atrial Flutter by **Magnetocardiography** - group of 2 »

PC Ribeiro, AC Bruno, PLS e Silva, CRH Barbosa, EP ... - IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, 1992 - ieeexplore.ieee.org  
... Abstract—We discuss the use of **magnetocardiography** to de ... is the precision with which  
the **inverse** problem can ... SQUID was coupled to a **second order** gradi- ometer ...  
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Extracorporeal magnetic fields generated by internal bioelectric sources

D Geselowitz, W Miller III - Magnetics, IEEE Transactions on, 1973 - ieeexplore.ieee.org  
... nonempirically up to the **second order** of overlap ... Subsequent development of  
**magnetocardiography** is discussed, including ... are used to solve the **inverse** problem, ...  
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Oxygen binding on hemoglobin and the electronic state of heme-iron

A Tasaki, J Otsuka - Magnetics, IEEE Transactions on, 1973 - ieeexplore.ieee.org  
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MR image texture analysis applied to the diagnosis and tracking of Alzheimer's disease - group of 2 »

PA Freeborough, NC Fox - Medical Imaging, IEEE Transactions on, 1998 - ieeexplore.ieee.org  
... Prior to **inverse** Fourier transformation the scanner automatically zero padded ... SGLDM  
involves the estimation of the discrete **second-order** probability function C ...  
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Superconducting electronics coming to market - group of 2 »

AI Braginski - Applied Superconductivity, IEEE Transactions on, 1999 - ieeexplore.ieee.org  
... necessary constraints in 3D **inverse** solutions for ... In contrast to MEG,  
**magnetocardiography** has not ... **second-order** magnetic-shielding-free axial gradiometer ...  
Cited by 19 - Web Search - BL Direct

Neuromagnetic functional Localization: Principles, state of the art, and perspectives - group of 2 »

GLS Romani, PS Rossini - Brain Topography, 1988 - Springer

... responds to a higher degree of spatial discrimination, (eg, a **second-order** gradiometer configuration ... It is well known that the **inverse** problem has no unique ...

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P van Leeuwen, B Halier, W Bader, J Geissler, E ... - BJOG: An International Journal of Obstetrics & Gynaecology, 1999 - Blackwell Synergy

... **Magnetocardiography** in the diagnosis of fetal arrhythmia. ... Objective To examine the possible use of **magnetocardiography** in the diagnosis of fetal arrhythmias. ...

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**Prenatal diagnosis of long QT syndrome using fetal magnetocardiography - group of 3 »**

H Hamada, H Horigome, M Asaka, S Shigemitsu, T ... - Prenatal Diagnosis, 1999 - doi.wiley.com

... **Magnetocardiography** ... We describe the detection of congenital long QT syndrome in a fetus at 37 weeks' gestation using **magnetocardiography** (MCG). ...

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**Antenatal fetal magnetocardiography: a new method for fetal surveillance?**

A Quinn, A Weir, U Shahani, R Bain, P Maas, G ... - Br J Obstet Gynaecol, 1994 - ncbi.nlm.nih.gov

Antenatal fetal **magnetocardiography**: a new method for fetal surveillance?

Quinn A, Weir A, Shahani U, Bain R, Maas P, Donaldson ...

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**Magnetocardiography and 32-lead potential mapping: repolarization in normal subjects during ...**

K Brockmeier, L Schmitz, JD Bobadilla Chavez, M ... - J Cardiovasc Electrophysiol, 1997 - ncbi.nlm.nih.gov

**Magnetocardiography** and 32-lead potential mapping: repolarization in normal subjects during pharmacologically induced stress. Brockmeier ...

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**Solving the inverse problem in magnetocardiography**

JT Nenonen - Engineering in Medicine and Biology Magazine, IEEE, 1994 - ieeexplore.ieee.org

Page 1. Jukka T. Nenonen Biomedical Engineering Laboratory Helsinki University

of Technology Solving the Inverse Problem in **Magnetocardiography** ...

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P Siltanen - Comprehensive Electrocardiology, 1989

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**... localization of an amagnetic stimulation catheter by multichannel magnetocardiography.**

R Fenici, J Nenonen, K Pesola, P Korhonen, J ... - Pacing Clin Electrophysiol, 1999 - ncbi.nlm.nih.gov

Nonfluoroscopic localization of an amagnetic stimulation catheter by multichannel **magnetocardiography**. Fenici R, Nenonen J, Pesola ...

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**... heart rate patterns in isolated congenital complete heart block detected by magnetocardiography.**

RT Wakai, AC Leuthold, CB Martin - Am J Obstet Gynecol, 1998 - ncbi.nlm.nih.gov

Click here to read Atrial and ventricular fetal heart rate patterns in isolated congenital complete heart block detected by **magnetocardiography**. ...

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**Prenatal recording of fetal heart action with magnetocardiography**

T Menendez, S Achenbach, W Moshage, M Flug, E ... - Z Kardiol, 1998 - ncbi.nlm.nih.gov

Click here to read [Prenatal recording of fetal heart action with **magnetocardiography**]

[Article in German] Menendez T, Achenbach S, Moshage W, Flug M, Beinder E ...

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**... invasive localization accuracy of cardiac arrhythmias attainable by multichannel magnetocardiography**

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W Moshage, S Achenbach, K Gohl, K Bachmann - Int J Card Imaging, 1996 - ncbi.nlm.nih.gov  
Evaluation of the non-invasive localization accuracy of cardiac arrhythmias  
attainable by multichannel **magnetocardiography** (MCG). ...  
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[cryoton.webzone.ru/labsys.htm](http://cryoton.webzone.ru/labsys.htm) - 43k - [Cached](#) - [Similar pages](#)

**Measurement techniques for magnetocardiography using a second ...**

Measurement techniques for magnetocardiography using a **second order gradiometer**. Ho SC, Ho FP, Chao MM, Wilkin JH, Miller JW. MeSH Terms ...  
[www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list\\_uids=3708073&dopt=Abstract](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=3708073&dopt=Abstract) - [Similar pages](#)

**A planar second-order DC SQUID gradiometer.**

In this work we describe a DC SQUID **gradiometer**, sensitive to the **second** spatial derivative of the m...  
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**High T superconducting second-order gradiometer—[Applied Physics ...**

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2.  **Automatic activation in the human primary motor cortex synchronized with movement preparation** • ARTICLE  
*Cognitive Brain Research*, Volume 8, Issue 3, 25 October 1999, Pages 229-239  
Hiroshi Endo, Tomohiro Kizuka, Tadashi Masuda and Tsunehiro Takeda  
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3.  **Magnetoencephalography: applications in psychiatry** • REVIEW ARTICLE  
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4.  **Application of high-order boundary elements to the electrocardiographic inverse problem** • ARTICLE  
*Computer Methods and Programs in Biomedicine*, Volume 58, Issue 2, February 1999, Pages 119-131  
G. Fischer, B. Tilg, P. Wach, R. Modre, U. Leder and H. Nowak  
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5.  **Experimental analysis of distortion of magnetoencephalography signals by the skull** • ARTICLE  
*Clinical Neurophysiology*, Volume 110, Issue 2, 1 February 1999, Pages 230-238  
Yoshio C. Okada, Airi Lahteenmäki and Chibing Xu  
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6.  **Noninvasive visualization of multiple simultaneously activated regions on torso magnetocardiographic maps during ventricular depolarization** • ARTICLE  
*Journal of Electrocardiology*, Volume 32, Issue 4, October 1999, Pages 305-313  
Keiji Tsukada, Toshio Mitsui, Yasushi Terada, Hitoshi Horigome and Iwao Yamaguchi  
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7.  **On the fetal magnetocardiogram** • ARTICLE  
*Bioelectrochemistry and Bioenergetics*, Volume 47, Issue 2, December 1998, Pages 273-281  
M. J. Peters, J. G. Stinstra, S. P. van den Broek, J. A. F. Huirne, H. W. F. Quartero, H. J. M. ter Brake and H. Rogalla  
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8.  **Realistic computer modelling of electric and magnetic fields of human head and torso • ARTICLE**  
*Parallel Computing, Volume 24, Issues 9-10, September 1998, Pages 1433-1460*  
Paul Schimpf, Jens Haueisen, Ceon Ramon and Hannes Nowak  
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9.  **Noninvasive biomagnetic imaging in coronary artery disease based on individual current density maps of the heart • ARTICLE**  
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11.  **Magnetocardiographic turbulence analysis in patients with the long QT syndrome • ARTICLE**  
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13.  **A purely electrodynamic interpretation of Hodgkin-Huxley current clamped system • ARTICLE**  
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14.  **Jerk-locked back averaging and dipole source localization of magnetoencephalographic transients in a patient with epilepsia partialis continua • ARTICLE**  
*Electroencephalography and Clinical Neurophysiology, Volume 103, Issue 4, October 1997, Pages 440-444*  
Hiroshi Shigeto, Shozo Tobimatsu, Takato Morioka, Tomoya Yamamoto, Takuro Kobayashi and Motohiro Kato  
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15.  **Separation of cardiac conduction system and atrial activities by spatial regression • ARTICLE**  
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16.  **An iterative approach on magnetic source imaging within the human cortex — a simulation study • ARTICLE**  
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B. Tilg and P. Wach  
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17.  **HTS DC SQUIDs for practical applications • ARTICLE**

18.  **Conference Programme • CONFERENCE**

*Cryogenics, Volume 34, Issue 10, October 1994, Pages 847-886*

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19.  **Validity of the uniform double layer in the solution of the ECG forward problem • ARTICLE**

*Journal of Electrocardiology, Volume 27, Supplement 1, 1994, Pages 163-169*

Allen M. Scher

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20.  **Electrical current paths in acute pericarditis • ARTICLE**

*Journal of Electrocardiology, Volume 26, Issue 4, October 1993, Pages 291-300*

Bin Sing Teh, Jan Walsh, Anthony J. Bell, Stephen J. Walker and David Kilpatrick

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21.  **Current trends in biomagnetic instrumentation • ARTICLE**

*Applied Superconductivity, Volume 1, Issues 10-12, October-December 1993, Pages 1791-1812*

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*Electroencephalography and Clinical Neurophysiology, Volume 86, Issue 1, January 1993, Pages 36-50*

Jia-Zhu Wang, Lloyd Kaufman and Samuel J. Williamson

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Antti Koski  
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R. Dhillon

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Waldemar Banasiak, Iwona Pajak, Piotr Ponikowski, Wieslaw Lacheta, Krzysztof Wiech, Massimo Piepoli and Czeslaw Telichowski

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Alan Kadish and Jeffrey Goldberger

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*Current Anaesthesia & Critical Care, Volume 6, Issue 1, January 1995, Pages 29-40*

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*Journal of Electrocardiology, Volume 28, Supplement 1, 1995, Pages 89-90*  
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*Journal of Electrocardiology, Volume 28, Supplement 1, 1995, Page 90*  
[PDF \(148 K\)](#)

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*Journal of Electrocardiology, Volume 28, Supplement 1, 1995, Page 90*  
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*Journal of Electrocardiology, Volume 28, Supplement 1, 1995, Page 90*  
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*Journal of Electrocardiology, Volume 28, Supplement 1, 1995, Page 90*  
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Yoshihiko Watanabe  
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Ronald H.S. Selvester  
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Jonas Pettersson, Stafford Warren, Nawzer Mehta, Paul Lander, Edward J. Berbari, Kathy Gates, Leif Sörnmo, Olle Pahlm, Ronald H. Startt Selvester and Galen S. Wagner  
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B. Feneck and F. Duncan  
[Abstract](#)

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*American Heart Journal, Volume 128, Issue 1, July 1994, Pages 77-87*  
Wolfram Grimm, John Miller and Mark E. Josephson  
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Gustin M. Ho, Mark J. Eisenberg and Nelson B. Schiller  
[Abstract](#)

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Marcelo E. Helguera, Sergio L. Pinski, Richard Sterba and Richard G. Trohman  
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Alberto Malliani, Massimo Pagani and Federico Lombardi  
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Elaine Kay Jordan and John L. Sever  
[Abstract](#)

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Hue-Teh Shih, William M. Miles, Lawrence S. Klein, Joyce E. Hubbard and Douglas P. Zipes  
[Abstract](#)

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Narayanswami Seeram, Emile C. Cheriex, Joep L. R. M. Smeets, Anton P. Gorgels and Hein J. J. Wellens  
[Abstract](#)

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Yi-Heng Li, Ling-Ping Lai, Kou-Gi Shyu, Juey-Jen Hwang, Huei-Ming Ma, Yu-Lin Ko, Peiliang Kuan and Wen-Pin Lien  
Abstract

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*American Heart Journal, Volume 127, Issue 1, January 1994, Pages 83-95*  
Delon Wu, San-Jou Yeh, Chun-Chieh Wang, Ming-Shien Wen and Fun-Chung Lin  
Abstract

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*Journal of Electrocardiology, Volume 27, Supplement 1, 1994, Pages 218-227*  
R. Martin Arthur, Neal G. Kavesh, H. Dieter Ambos and Michael E. Cain  
Abstract

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Mohammad R. Jazayeri, Sanjay Deshpande, Anwer Dhala, Zalmen Blanck, Jasbir S. Sra and Masood Akhtar  
Abstract

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Jonathan L. Benumof  
Abstract

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*Journal of Cardiothoracic and Vascular Anesthesia, Volume 8, Issue 3, June 1994, Page 375*  
Richard J. Bjerke  
Abstract

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*Journal of Emergency Medicine, Volume 11, Issue 5, September-October 1993, Pages 543-553*  
James K. Schroeder  
Abstract

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Mirek Sochanski, Roberto M. Lang, Lynn Weinert, Jim Bednarz, Alex Neumann, Donna Ehler and Daniel David  
Abstract

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*The American Journal of Cardiology, Volume 71, Issue 13, 15 May 1993, Pages 1174-1180*  
San-Jou Yeh, Chun-Chieh Wang, Ming-Shien Wen, Fun-Chung Lin and Delon Wu  
Abstract

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Nabil El-Sherif, Rahul Mehra and Mark Restivo  
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Sudha Pai and Vilma I. Torres  
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Domenico Acanfora , Lorenzo De Caprio , Annalisa Di Palma , Giuseppe Furgi , Fortunato Marciano Ing , Marie-Louise Migaux and Franco Rengo  
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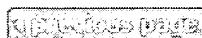
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